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APPLICATION N	O. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,576	•	02/23/2004	Tohru Koike	P1327US	9570
1218	7590	11/28/2005		EXAMINER	
	A & HESI		haq, shafiqul		
NEW YORK, NY 10016				ART UNIT	PAPER NUMBER
				1641	

DATE MAILED: 11/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/784,576	KOIKE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Shafiqul Haq	1641					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	L. lety filed the mailing date of this communication.					
Status							
1)⊠ Responsive to communication(s) filed on 19 Ju	dv 2004						
· <u> </u>	action is non-final.						
		secution as to the merits is					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.	· _						
•	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers	,						
···							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) I he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form P1O-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/19/04:6/16/04:	5) Notice of Informal P 6) Other:	atent Application (PTO-152)					

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention.

3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention. Claim 1 provide for the method for labeling a

phosphorylated peptide by a complex compound represented by formula (I), but,

since the claim does not set forth any steps involved in the method/process, it is

unclear what method/process applicant is intending to encompass. A claim is

indefinite where it merely recites a use without any active, positive steps delimiting

how this use is actually practiced.

4. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention. Claim 3 provide for the method for adsorbing a

phosphorylated peptide by a complex compound represented by formula (I), but,

since the claim does not set forth any steps involved in the method/process, it is

unclear what method/process applicant is intending to encompass. A claim is

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indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

5. Claim 7 is indefinite and unclear as to reaction conditions meant to be used.

6. With respect to claim 8, it is not clear what is meant by "reactive group" in the absence of any definition of what type of reaction will take place. The "reactive group except" does not positively define what is meant to be included by the term.

Claim Rejections - 35 USC § 101

7. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

8. Claims 1-4 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example Ex parte Dunki, 153 USPQ 678 (Bd.App. 1967) and Clinical Products, Ltd. v. Brenner, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent

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granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

10. Claim 8 is rejected under 35 U.S.C. 102(e) as being anticipated by Koike et al. (US 2005/0038258 A1).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Present application recites a compound of formunla (II) wherein R¹= reactive group.

Koike et al. disclose a compound of formula (II) that anticipates formula (II) compound of present invention wherein in referenced compound R=maybe the same or different from each other wherein three of the R=H and the other R= reactive group (e.g. as disclosed) (page 14, claim 11).

Therefore, the reference is deemed to anticipate the cited claim.

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

12. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being obvious over Koike et al. (US 2005/0038258 A1).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(I)(1) and § 706.02(I)(2).

Present application discloses a zinc complex of a compound of formula (I) wherein y is a label.

Koike disclose binuclear zinc complex of a compound of formula (I-0) (see abstract and claim 1) wherein R can be a reactive functional group (paragraphs [0011-0012] and claim 1). Koike also disclose that the complex compound can be bound to a label (e.g. solid support such a latex or magnetic particles) through linker/functional group (e.g. amino or a hydroxyl group) (paragraphs [0029; 0076]; for other functional group/linker see claim 1).

koike et al. do not disclose biotin (claim 2 of this application) as label but, biotinavidin is common and known in the art to attach biomolecules or haptens to solid support and for use in labeling and therefore, it would be obvious to one of ordinary skill in the art to use biotin as an equivalent label to attach to solid support coated with avidin.

As for claim 7, Koike et al disclose method of preparing zinc complex (see paragraph [0024] and claim 10 of reference). Although koike et al. do not disclose the reaction step to attach label to the compound, the reaction step is inherent in the method of attaching to a support/label.

13. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being obvious over Koike et al. (US 2005/0038258 A1).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is

thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

Present application discloses a method for labeling and adsorbing phosphorylated peptide by a zinc complex of a compound of formula (I).

Koike et al. disclose binuclear zinc complex of a compound having a label/support as discussed in above paragraph 8. Koike et al disclose that the zinc complex of the compound binds to phosphorylated substance (paragraphs [0009-0010;0029-0030]) and can be used as capturing agent for phosphorylated substance (e.g. peptides or proteins) (paragraphs ([0020, 0020 and 0075]). The method of "adsorbing a phosphorylated peptide" is similar to or same as "capturing phophorylated proteins" and thus is obvious over Koike.

Koike et al do not disclose labeling phosphorylated peptides, but once a compound has been established that specifically binds to a target analyte (as disclosed by koike for binding and capturing phosphorylated peptides), one skilled in

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the art would clearly consider the labeled compound to label (bind) the analyte (e.g.

phosphorylated peptides) in a sample for its capturing and as well as for its

detection.

Conclusion

14. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shafigul Haq whose telephone number is 571-272-

6103. The examiner can normally be reached on 7:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long V. Le can be reached on 571-272-0823. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Status information for unpublished applications is available through Private PAIR

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Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SHAFIQUL HAQ

EXAMINER

ART UNIT 1641

MARY E CEPERLEY

PRIMARY EXAMINER

ART UNIT 1641